IN THE CLAIMS

Claims 1-14 (Cancelled).

15. (Previously Presented) A micromachined device comprising:

a first proof mass;

a second proof mass;

a plurality of support arms attached to the first proof mass and second proof mass,

each of the support arms flexibly coupling the proof masses to a substrate;

wherein at least one of the support arms includes a first end coupled to the

substrate and a second end coupled to the substrate, the at least one support arm

comprising:

a first spring element attached to the substrate;

a second spring element attached to the substrate; and

a rigid lateral element having a first end and a second end, the first end of

the rigid lateral element connected to the first spring element and the second end

of the rigid lateral element connected to the second spring element;

wherein each proof mass is connected to the rigid lateral element at a point

between the first end and the second end of the support arm and wherein the support arm

is substantially diametrical about the point, in a plane that is parallel to the substrate; and

at least one coupling spring having a first end and a second end, the first end of

the at least one coupling spring connected to the first proof mass and the second end of

the at least one coupling spring connected to the second proof mass.

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16. (Previously Presented) The micromachined device of claim 15, wherein the

first end of the at least one coupling spring is connected to a side of the first proof mass

that is closest to the second proof mass and the second end of the at least one coupling

spring is connected to a side of the second proof mass that is closest to the first proof

mass.

The micromachined device of claim 15, wherein the 17. (Previously Presented)

first end of the at least one coupling spring is connected to a side of the first proof mass

that is closest to the second proof mass at substantially the midpoint of the side of the

first proof mass and the second end of the at least one coupling spring is connected to a

side of the second proof mass that is closest to the first proof mass at substantially the

midpoint of the side of the second proof mass.

18. (Previously Presented) The micromachined device of claim 17, wherein the

first end of the at least one coupling spring and the second end of the at least one

coupling spring lie on a straight line that comprises an axis of oscillation of the first proof

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mass and the second proof mass.

The micromachined device of claim 15, wherein the 19. (Previously Presented)

point is substantially equidistant from the ends of the rigid lateral element.

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20. (Previously Presented) The micromachined device of claim 15, wherein the

connection of the first spring element to the rigid lateral element creates a first end

flexure point, the connection of the second spring element to the rigid lateral element

creates a second end flexure point, and the connection of a proof mass to the rigid lateral

element creates a middle flexure point.

21. (Previously Presented) The micromachined device of claim 15, wherein the

first end flexure point, the second end flexure point, and the middle flexure point lie on a

substantially straight line.

22. (Previously Presented) The micromachined device of claim 21, wherein the

substantially straight line comprises an axis of alignment.

23. (Previously Presented) The micromachined device of claim 22, wherein the

axis of alignment is parallel to an axis of oscillation of the proof mass.

24. (Previously Presented) The micromachined device of claim 23, wherein

when at least one of the proof masses moves along the axis of oscillation, the middle

flexure point where it is coupled to a rigid lateral element moves along the axis of

alignment.

25. (Previously Presented) The micromachined device of claim 24, further

including a second support arm having a first end coupled to the substrate and a second

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end coupled to the substrate, wherein at least one of the proof masses is connected to the

second support arm at a point between the first end and the second end of the rigid lateral

element.

26. (Previously Presented) The micromachined device of claim 25, wherein the

at least one support arm and the second support arm are positioned on the same side of a

at least one of the proof masses.

27. (Previously Presented) The micromachined device of claim 25, wherein the

at least one support arm and the second support arm are positioned on opposite sides of a

at least one of the proof masses.

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